PCT	
REQUEST	

The undersigned requests that the present

For receiving	use only
International Application No.	
International Filing Date	
Name of receiving Office and "PCT I	nternational Application"

international application be processed according to the Patent Cooperation Treaty.			Name of receiving	Office and "PCT International Application"
			Applicant's or ager (if desired) (12 char	
Box No. I	TITLE OF INVENTION	METHOD AND UV LIGHT	APPARATUS	FOR COMMUNICATION USING
Box No. II	APPLICANT	This perso	on is also inventor	
The address mu	dress: (Family name followed by give ust include postal code and name of co cant's State (that is, country) of residen	ountry. The country of t	the address indicated in t	this
ĺ	NEXT SAFETY, INC.			Facsimile No.
	1329 Phoenix Colv			T I NI
	Jefferson, North	Carolina 28	640	Teleprinter No.
	United States of A			Applicant's registration No. with the Office
State (that is, c	country) of nationality: United States of A	America	State (that is, count United	/ry) of residence: States of America
This person is for the purpose		X all designated the United St	States except ates of America	the United States of America only the States indicated in the Supplemental Box
Box No. III	FURTHER APPLICANT(S)	AND/OR (FURTE	IER) INVENTOR(S	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Name and addr	ress: (Family name followed by given	name; for a legal entit	y, full official designation	This person is:
	t include postal code and name of countr's State (that is, country) of residence			"   —
	THEODERINE TORN II			applicant only
	HEBRANK, John H. 216 Jefferson Driv			X applicant and inventor
	Durham, North Card	• •		inventor only (If this check-box is marked do not fill in below)
	United States of A			is marked, do not fill in below.)
•	Ulited Dudes of 2	MICLICA		Applicant's registration No. with the Office
State (that is, co	ountry) of nationality: United States of A	America	State (that is, country United S	y) of residence: States of America
This person is a for the purposes		all designated State	States except X	the United States the States indicated in of America only the Supplemental Box
X Further ap	pplicants and/or (further) invento	ors are indicated on	a continuation sheet.	
Box No. IV	AGENT OR COMMON REPI	RESENTATIVE;	OR ADDRESS FOR	CORRESPONDENCE
The person ident of the applicant(	stified below is hereby/has been a (s) before the competent Internat	appointed to act on tional Authorities as	behalf	agent common representative
Vame and address	ess: (Family name followed by given n The address must include postal c	ame: for a legal entity. J code and name of coun	full official designation. stry.)	Telephone No. (212) 708-1890
Mass, Cli	ifford J.	٠.		Facsimile No. (212) 246-8959
Ladas & Pa	arry			Teleprinter No.
26 West 61				1 eleptinica 140.
	New York 10023			4 Paradian Call and the Office
Jnited Stat	tes of America			Agent's registration No. with the Office
Address for space above	or correspondence: Mark this core is used instead to indicate a sp	heck-box where no	agent or common reprice correspondence sl	resentative is/has been appointed and the hould be sent.

Form PCT/RO/101 (first sheet) (March 2001; reprint July 2003)

See Notes to the request form

		2
heet	No	4

Continuation of Box No. III FORTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: Family name followed by given name: for a local artist follows:					
The address must include postal code and name of country. The country of the address indicated in Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	this T				
, , , , , sale of the state of	applicant only				
McNEIL, Laurie E.	X applicant and inventor				
308 Columbia Place East	inventor only (If this check-box				
Chapel Hill, North Carolina 27516	is marked, do not fill in below.)				
United States of America	Applicant's registration No. with the Office				
State (that is, country) of nationality: United States of America United States	ntry) of residence:				
This area is a self-unit	States of America				
This person is applicant for the purposes of:  all designated the United States except the United States of America	X the United States of America only the States indicated in the Supplemental Porce				
Name and address: (Family name followed by given name; for a legal entity, full official designation	, C me ouppicitemat Dux				
The address must include postal code and name of country. The country of the address indicated in t Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	on. This person is:				
box 8 the approxim's State (that is, country) of residence if no State of residence is indicated below.)	applicant only				
WEINER, Michael A.	X applicant and inventor				
1021 Park Avenue	inventor only (If this check-box				
New York, New York 10028	is marked, do not fill in below.)				
United States of America	Applicant's registration No. with the Office				
State (that is, country) of nationality: United States of America  State (that is, country) United	ry) of residence: States of America				
	States of America				
This person is applicant all designated all designated States except for the purposes of:  all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity, full official designation	This person is:				
The address must include postal code and name of country. The country of the address indicated in the Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	is				
	applicant only				
HUNTER, Charles Eric	X applicant and inventor				
1329 Phoenix Colvard Road	inventor only (If this check-box is marked, do not fill in below.)				
Jefferson, North Carolina 28640 United States of America					
officed bettees of America	Applicant's registration No. with the Office				
State (that is, country) of nationality: United States of America  State (that is, country)	y) of residence:				
United States of America United S	tates of America				
This person is applicant for the purposes of:    All designated   All desi	the United States the States indicated in				
ule United States of America	of America only the Supplemental Box				
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Reviet he optional: State (the time)	This person is:				
Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	applicant only				
DAVIC Dobort E					
DAVIS, Robert F. 5707 Calton Drive	X applicant and inventor				
Ralėigh, North Carolina 27612	inventor only (If this check-box is marked, do not fill in below.)				
Instead Chates of America					
Applicant's registration No. with the Office					
tate (that is, country) of nationality:  State (that is, country) of residence.					
United States of America  State (that is, country) of residence: United States of America					
his person is applicant all designated all designated States except the United States indicated in					
or the purposes of:  States the United States of America					
Further applicants and/or (further) inventors are indicated on another continuation s					
Transfer approaches and critical inventors are indicated on another continuation sheet.					

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

## Regional Patent

- AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)....
- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- A OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

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1	Vati	onal Patent (if other kind of protecti	on o	r trea	tment desired, specify on dotted line)	:		
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A	<b>J</b> BA	A Bosnia and Herzegovina	K	KЕ	Kenya			***************************************
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R	BC	G Bulgaria	K	KР	Democratic People's Republic	X		Sudan
K		R Brazil			of Korea	X	SE	Sweden
K	l by	Belarus	X	KR	Republic of Korea	X	SG	Singapore
R	J B2	Belize	X	KZ	Kazakhstan	X	SK	Slovakia
X	I CA	Canada	100	LC	Saint Lucia			Sierra Leone
		I & LI Switzerland and Liechtenstein						Syrian Arab Republic
		China					TJ	Tajikistan
		Colombia				X	TM	Turkmenistan
		Costa Rica						Tunisia
K	CU	Cuba	X	LU	Luxembourg	$\boxtimes$	TR	Turkey
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K	DK	Denmark	Ø	MD.	Republic of Moldova	K	TZ	United Republic of Tanzania
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Ø	ES	Spain	K	MNI	Mongolia	X	UZ	Uzbekistan
X	FI	Finland	X)	MW	Malawi	K	VC	Saint Vincent and the Grenadines
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X	GD	Grenada	X	MZ I	Mozambique	K	ΥU	Serbia and Montenegro
X	GE	Georgia	<b>M</b>	1 IN	Nicaragua 💮 💮	X	ZA	South Africa
K	GH	Ghana	XI.	NO 1	_			Zambia
					New Zealand			
Che	ck-t	ooxes below reserved for designating	State	s whi	ch have become party to the PCT af	ter	issua	ance of this sheet:
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which
  a special continuation box is provided, the space is insufficient
  to furnish all the information: in such case, write "Continuation
  of Box No..." (indicate the number of the Box) and furnish the
  information in the same manner as required according to the
  captions of the Box in which the space was insufficient, in
  particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Box No. III and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

CONTINUATION OF BOX NO. IV RICHARDS, John (212) 708-1915 GALLOWAY, Peter D. (212) 708-1905 CORD, Janet (212) 708-1935 EVANS, William R. (212) 708-1930 MILLER, Cynthia R. (212) 708-1914 EBNER VON ESCHENBACH, Jennifer 089629077 DOBLE, Richard G.V. 089629077 Sheet No. ..5....

Box No. VI PRIORIT	TY CLAIM			
The priority of the follow	ring earlier application(s) is here	eby claimed:		
Filing date	Number		Where earlier application	is:
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application receiving Office
item (1) 19 July 2002 (19.07.02)	60/396,753	US		
item (2)				
item (3)				
item (4)				
item (5)				
Further priority claim	us are indicated in the Suppleme	ental Box.	1	
if the earlier application we above as:	quested to prepare and transmit to as filed with the Office which for	the purposes of this interna	itional application is the re	other, see
	a (1) item (2)	item (3) item		Supplemental Box
* Where the earlier applica Industrial Property or one .	ntion is an ARIPO application, in Member of the World Trade Or	dicate at least one country ganization for which that e	earlier application was file	d (Rule 4.10(b)(ii)):
D-N-MI INTERNA	TIONAL SEARCHING AUI	HORITY		
international search, indica	earching Authority (ISA) (if the the Authority chosen; the two-	vo or more International S -letter code may be used):	earching Authorities are c	ompetent to carry out the
ISA /				
Request to use results of a International Searching Aut				by or requested from the
Date (day/month/year) 19 July 2002(19.0	Numb (17.02) 60/3	er Count 96,753 US	try (or regional Office)	
Box No. VIII DECLARA	ATIONS			
The following declarations check-boxes below and indic	s are contained in Boxes Nos. Vecate in the right column the number	VIII (i) to (v) (mark the ap ber of each type of declara	plicable tion):	Number of declarations
Box No. VIII (i)	Declaration as to the identity	of the inventor		:
Box No. VIII (ii)	Declaration as to the applicadate, to apply for and be gra		international filing	:
Box No. VIII (iii)	Declaration as to the applic date, to claim the priority o		e international filing	:
Box No. VIII (iv)	Declaration of inventorship United States of America)	(only for the purposes of	the designation of the	:
Box No. VIII (v)	Declaration as to non-prejuc	licial disclosures or excep	tions to lack of novelty	:

		_	
Sheet	NI_	n	
Sucei	IVO.	_	

Box No. IX CHECK LIST; LANGUAGE OF FILING					
Box No. IX CHECK LIST; DANGUAGE  This international application contains:  (a) in paper form, the following number of sheets:  request (including declaration sheets) :  description (excluding sequence listings and/or tables related thereto) :  claims : 8  abstract : 1  drawings : 17  Sub-total number of sheets : 57  sequence listings :  tables related thereto :  (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)  Total number of sheets : 57  (b) only in computer readable form (Section 801(a)(i))	This international application is accompanied by the followitem(s) (mark the applicable check-boxes below and indicate right column the number of each item):  1.  fee calculation sheet  2. original separate power of attorney  3. original general power of attorney  4. copy of general power of attorney; reference number if any:  5. statement explaining lack of signature  6. priority document(s) identified in Box No. VI as item(s):  7. translation of international application into (language):  8. separate indications concerning deposited microorge or other biological material  9. sequence listings in computer readable form (indicate type and number of carriers)  (i) copy submitted for the purposes of international Rule 13ter only (and not as part of the internation additional copies including, where applicable, the purposes of international search under Rule 13ter	of items  of items  control  c			
(Section 801(a)(i)) (i) sequence listings (ii) tables related thereto (c) also in computer readable form (Section 801(a)(ii)) (i) sequence listings (ii) tables related thereto Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the sequence listings: tables related thereto: (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	(iii) dogether with relevant statement as to the identity copies with the sequence listings mentioned in lef  10. tables in computer readable form related to sequence (indicate type and number of carriers)  (i) copy submitted for the purposes of international s Section 802(b-quater) only (and not as part of the application)  (ii) (only where check-box (b)(ii) or (c)(ii) is marked in landitional copies including, where applicable, the purposes of international search under Section 802  (iii) together with relevant statement as to the identity copies with the tables mentioned in left column  11. Control other (specify): TRANSMITTAL LETTER	of the copy or a column  listings  earch under international  eft column)  copy for the 2(b-quater)  of the copy or			
Figure of the drawings which should accompany the abstract:  Language of filing of the international application:  English  Box No. X SIGNATURE OF APPLICANY, AGENT OR COMMON REPRESENTATIVE  Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).					
Cliff	J. Mass T FOR APPLICANTS  — For receiving Office use only	2. Drawings:			
Corrected date of actual receipt due to later by timely received papers or drawings completing the purported international application:	it B	received:			
Date of timely receipt of the required corrections under PCT Article 11(2):  International Searching Authority	6. Transmittal of search copy delayed	not received:			
ate of receipt of the record copy the International Bureau:	For International Bureau use only				

## FEE CALCULATION SHEET

Annex to the Request	International Application No.		
Applicant's or agent's file reference NSI-8	Date stamp of the receiving Office		
Applicant NEXT SAFETY, INC.			
CALCULATION OF PRESCRIBED FEES			
1. TRANSMITTAL FEE	240. T		
2. SEARCH FEE International search to be carried out by United States (If two or more International Searching Authorities are competent to carry ou search, indicate the name of the Authority which is chosen to carry out the international search.	t the international ernational search.)		
3. INTERNATIONAL FEE Basic Fee			
Where items (b) and/or (c) of Box No. IX apply, enter Sub-total nun Where items (b) and (c) of Box No. IX do not apply, enter Total nun	nber of sheets }		
b1 first 30 sheets	476. ы		
b2) 27 x 12 = 1	324. b2		
additional component (only if sequence listings and/or tables re thereto are filed in computer readable form under Section 801/a	lated )(i),		
or both in that form and on paper, under Section 801(a)(ii)):			
400 x =	b3		
Add amounts entered at b1, b2 and b3 and enter total at B	800. B		
Designation Fees The international application contains 97 designations.	ll l		
	520 <b>.</b> D		
number of designation fees payable (maximum 5) amount of designation fee	520. D		
Add amounts entered at B and D and enter total at I	1320.		
(Applicants from certain States are entitled to a reduction of 75% international fee. Where the applicant is (or all applicants are) so entitled, the to be entered at I is 25% of the sum of the amounts entered at B and D.)	e total		
FEE FOR PRIORITY DOCUMENT (if applicable)	20. P		
	2280.		
TOTAL FEES PAYABLE	TOTAL		
The designation fees are not paid at this time.			
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authorization to charge	cash Coupons		
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<u> </u>	evenue stamps other (specify):		
JTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUN is mode of payment may not be available at all receiving Offices)	Receiving Office: RO/_US		
Authorization to charge the total fees indicated above.	Deposit Account No.: 12-0425		
(This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency	Date: 17 July 2003 (17.07.03)		
or credit any overpayment in the total fees indicated above.	Name: Clifford J Mass		
Authorization to charge the fee for priority document.	Signature:		
PCT/RO/101 (Annex) (January 2003: reprint July 2003)	See Notes to the fee calculation sheet		